

PASSIVE OPTICAL NETWORK ADDRESS ASSOCIATION RECOVERY

ABSTRACT

Techniques for reestablishing network address associations upon recovery of a passive optical network (PON) disablement rely on stored address association information. A network node stores address association information in non-volatile memory upon detecting a network disablement. Upon recovery of the PON from the disablement, the network node associates network addresses to clients in accordance with the address association information. The network node may further verify the associations by sending ARP queries for the network addresses to the associated clients. Alternatively, the network nodes may reestablish the address associations by tracking the length of time of the network disablement, and updating address association information in accordance with the length of the disablement.